

SOLVE II Science Team Meeting

Dryden Dec 11, 2002

SOLVE II Balloon Campaign Overview

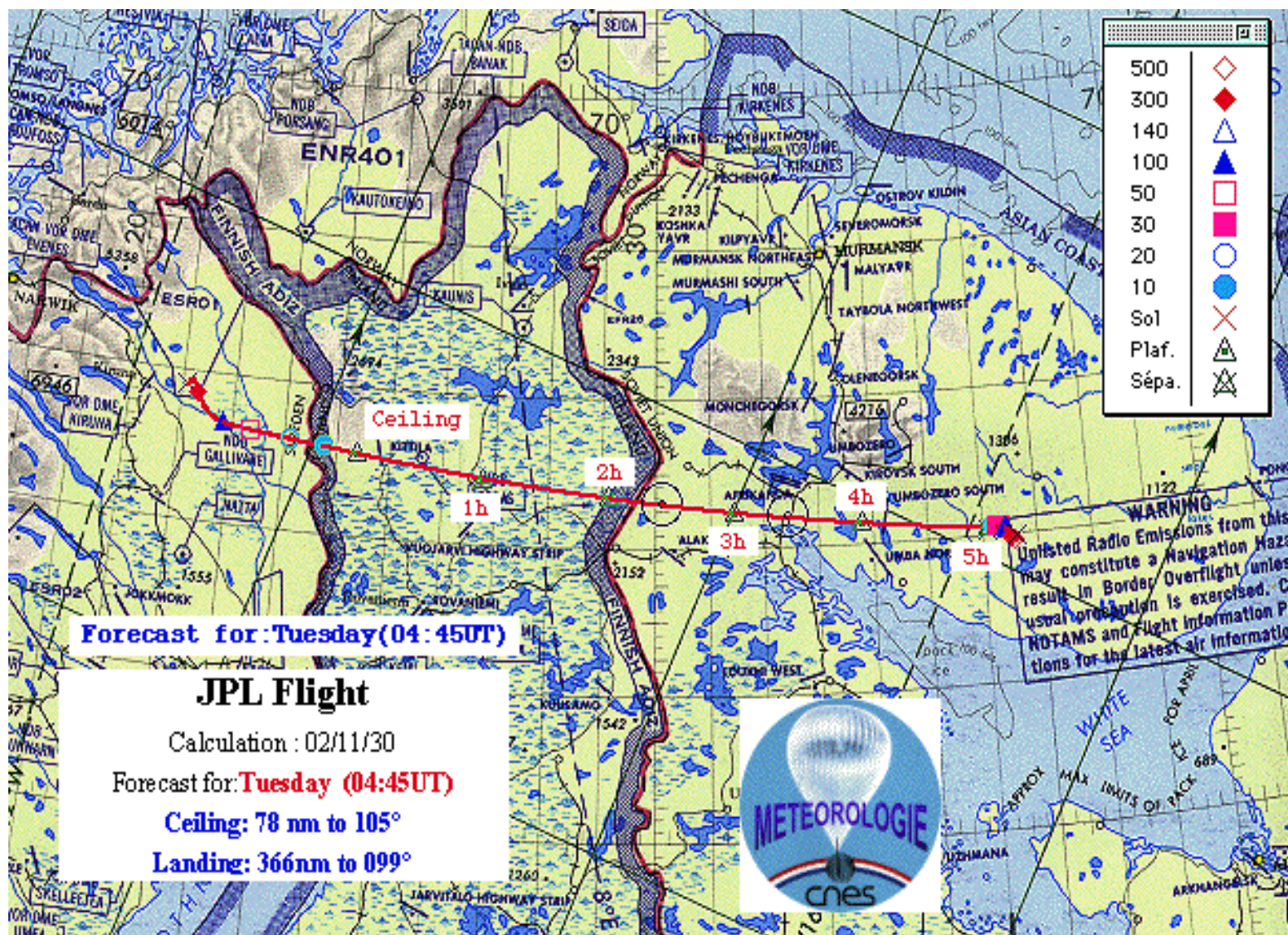
SOLVE II Balloon Investigations

Large payloads: Toon/JPL MkIV and in situ Ozone
early Dec and late Mar/Apr (plus ILAS II Val Apr03)
solar occultation
1200 lbs gondola
launch by CNES from Esrange
to 32 km (6.5 mb)
ground obs Jan-Mar

Sondes: Deshler/U Wyo aerosol
 3 flights in Dec, Jan (plus PSC payload)

Voemel/CU/CMDL ozone, water
15 flights
Kiruna, Sodankyla, Lauder NZ (sunrise)

Flight trajectory



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Rocket: Schmidlin/WFF temp
 15 flights, late Jan

Additional Balloon Payloads

- **PSC analyses gondola** - comprehensive in situ measurements within polar stratospheric clouds, two flights. Measurements include:
 - Composition (MPI, Germany)
 - Size distribution (U Wyoming, USA, funded by NSF)
 - Phase (IFA, Italy)
 - Optical properties (IFA, Italy, DMI, Denmark)
 - Gas phase water vapor (LMD, France)
- These two flights have been completed on 4 and 6 December
- **ADEOS II - ILAS II Validation** - large gondolas, launch by CNES
 - MkIV April 2003
 - 4 other payloads April 2003

Winter 2002-3 Balloon Flights

	Dec	Jan	Feb	Mar	Apr
SOLVE2					
Large	MkIV			MkIV	
Sonde	aerosol-----				
		H2O/O3---			
Other	PSC	VINTERSOL/ENVISAT	ILAS-MkIV+		
	MIPAS	Match ozonesondes			
Rocket		Temp			